Abstracts

Analysis of class-F and inverse class-F amplifiers

A. Inoue, T. Heima, A. Ohta, R. Hattori and Y. Mitsui. "Analysis of class-F and inverse class-F amplifiers." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 775-778.

Class-F: the 2nd harmonic is short and the 3rd harmonic is open, inverse class-F: the 3rd one is short and the 2nd one is open, and intermediate harmonic tunings are analyzed by simulations. The best tuning that exhibits the highest efficiency has been found to move from class-F to inverse class-F in accordance with larger gain-compression, higher load resistance and smaller Ron. The Ron dependence of the efficiency is also described by using a waveform theory.

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